ELSEVIER

Journal of Molecular Catalysis 88 (1994) 385–387

JOURNAL OF MOLECULAR CATALYSIS

Author Index

Alper, H., see Sommovigo, M. 151
Alper, H., see Goldberg, Y. 377
Bartik, B., see Bartik, T. 43
Bartik, T., Bartik, B. and Hanson, B.E.
Aqueous phase rhodium hydroformylation of octene-1 with trisulfonated tris(ω-phenyl)alkylphosphines and trisulfonated triphenyl phosphine. Reaction selectivity as an indication of rhodium–phosphine complex chemistry 43
Balzhinimaev, B.S., see Pinaeva, L.G. 311
Bauer, R., see Werner, H.A.F. 185
Bhat, Y.S., see Parikh, P.A. 85
Bhattacharya, P.K., see Upadhyay, M.J. 287
Bond, G.C., see Perez Zurita, M.J. 213
Borade, R.B. and Clearfield, A.
A comparative study of acidic properties of SAPO-5, -11, -34 and -37 molecular sieves 249
Chandiran, T. and Vancheesan, S.
Hydrogenation of conjugated dienes catalysed by η^6-arenetricarbonylchromium complexes 31
Chang, H.-F. and Saleque, M.A.
Catalytic activities of electroless plated Cu/alumina catalysts for the dehydrogenation of cyclohexanol 223
Chen, W., Xu, Y. and Liao, S.
Hydroformylation of olefins catalyzed by (1,5-cyclooctadiene) salicylaldoximatorhodium under atmospheric pressure 277
Chien, H.-Y., see Don, M.-J. 133
Chien, H.-Y., see Yang, K. 159
Choudary, B.M., Koteswara Rao, K., Pirozhkov, S.D. and Lapidus, A.L.
An efficient heterogenised palladium catalytic system for the reductive carbonylation of nitrobenzene to methyl *N*-phenylcarbamate 23
Ciuffi, K.J., see Iamamoto, Y. 167
Clearfield, A., see Borade, R.B. 249
Dahl, D.B., see Kirova, M.L. 301
Daudon, M., see Souvignet, E. 7
Davis, B.H., see Sparks, D.E. 325, 359
Davis, B.H., see Srinivasan, R. 343
De Goldwasser, M.R., see Perez Zurita, M.J. 213
De Moraes, M., see Iamamoto, Y. 167
Deshpande, K., see Narayanan, S. L271
Divakar, S., see Ravichandran, R. L117
Don, M.-J., Chien, H.-Y. and Richmond, M.G.
Hydroformylation catalysis explored by cylindrical internal reflectance spectroscopy. Spectroscopic evidence for the fragmentation of the benzylidyne cluster $PhCCo_3(CO)_9$ 133
Ganeshpure, P.A., see Upadhyay, M.J. 287
Goldberg, Y. and Alper, H.
Electrophilic halogenation of aromatics and heteroaromatics with *N*-halosuccinimides in a solid/liquid system using an H^+ ion exchanger or ultrasonic irradiation 377
Gómez, R., see López, T. 71
Halgeri, A.B., see Parikh, P.A. 85
Hamada, T., Ishida, H., Usui, S., Tsumura, K. and Ohkubo, K.
Enantioselective and photocatalytic oxidation of 1,1′-bi-2-naphthol with a chiral ruthenium complex which includes molecular helicity L1
Hanaoka, T., see Kelkar, A.A. L113
Hanson, B.E., see Bartik, T. 43
Haruštiak, M., see Macho, V. 177
Henriquez, I.S., see Perez Zurita, M.J. 213
Hidaka, H., Zhao, J., Satoh, Y., Nohara, K., Pelizzetti, E. and Serpone, N.
Photodegradation of surfactants. Part XII: Photocatalyzed mineralization of phosphorus-containing surfactants at TiO_2/H_2O interfaces 239
Hirose, T., see Mizuno, N. L125
Iamamoto, Y., Ciuffi, K.J., Sacco, H.C., Prado, C.M.C., De Moraes, M. and Nascimento, O.R.
Meso-aryl substituted metalloporphyrins supported on imidazole propyl gel (IPG). Catalytic activity in the oxidation of cyclohexane

and characterization of iron porphyrin–IPG systems 167
Ibusuki, T. and Takeuchi, K.
Removal of low concentration nitrogen oxides through photoassisted heterogeneous catalysis 93
Imamura, H., see Sakata, Y. 103
Imanaka, T., see Kaneda, K. L267
Ishida, H., see Hamada, T. L1
Iwamoto, M., see Mizuno, N. L125
Jaworska-Galas, Z., see Trzeciak, A.M. 13
Jirátová, K., see Šolcová, O. 193
Kaneda, K., Kuwahara, H. and Imanaka, T.
Chemoselective reduction of nitro groups in the presence of olefinic, ester, and halogeno functions using a reducing agent of CO and H_2O catalyzed by Rh carbonyl clusters L267
Kelkar, A.A., Hanaoka, T., Kubota, Y. and Sugi, Y.
Palladium catalyzed vinylation of 4-bromo-4′-hydroxybiphenyl L113
Kirova, M.L., Dahl, D.B. and Lloyd, W.G.
Isomerization and oxidation of linear hexenes with methanolic Pd(II) 301
Klemm, L.H.
Intermolecular methyl group transfers in the xylene and xylene–benzene systems by means of anhydrous HF 205
Koteswara Rao, K., see Choudary, B.M. 23
Kubota, Y., see Kelkar, A.A. L113
Kurtev, K. and Tomov, A.
Ethene polymerization by binuclear nickel–ylide complexes 141
Kuwahara, H., see Kaneda, K. L267
Lapidus, A.L., see Choudary, B.M. 23
Lapina, O.B., see Pinaeva, L.G. 311
Levina, A. and Trusov, S.
Nitrous acid-catalysed oxidation of alcohols by oxygen in strongly acidic aqueous solutions L121
Liao, S., see Chen, W. 277
Lloyd, W.G., see Kirova, M.L. 301
López, T., Gómez, R., Ramírez-Solís, A., Poulain, E. and Novaro, O.
Li/MgO sol–gel catalysts 71
Luisa Cubeiro, M., see Perez Zurita, M.J. 213
Macho, V., Vojček, L., Schmidtová, M. and Haruštiak, M.
Carbonylative reduction of aromatic nitroderivatives to arylamines catalyzed by sulfur compounds 177
Mastikhin, V.M., see Pinaeva, L.G. 311
Miśta, W., see Trzeciak, A.M. 13
Mizuno, N., Hirose, T., Tateishi, M. and Iwamoto, M.
Synthesis of $[PW_9O_{37}\{Fe_{3-x}Ni_x(OAc)_3\}]^{(9+x)-}$ (x = predominantly 1) and oxidation catalysis by the catalyst precursor L125
Monflier, E. and Mortreux, A.
Double vs. mono carbonylation of phenethyl bromide catalyzed by cobalt complexes: effect of hydrophobic or water-soluble phosphines on the rate and selectivity of the reaction 295
Mortreux, A., see Monflier, E. 295
Mukherjee, D.K., Palit, B.K. and Saha, C.R.
Dihydrogen reduction of organic substrates using orthometallated ruthenium(II) complex catalysts 57
Narayanan, S., Deshpande, K. and Prasad, B.P.
Montmorillonite and vanadia–montmorillonite catalysts for aniline alkylation L271
Nascimento, O.R., see Iamamoto, Y. 167
Nohara, K., see Hidaka, H. 239
Nosov, A.V., see Pinaeva, L.G. 311
Novaro, O., see López, T. 71
Ohdan, K., see Sakata, Y. 103
Ohkubo, K., see Hamada, T. L1
Palit, B.K., see Mukherjee, D.K. 57
Parikh, P.A., Subrahmanyam, N., Bhat, Y.S. and Halgeri, A.B.
Synthesis of diisopropylbenzene over dealuminated zeolite beta 85
Pautet, F., see Souvignet, E. 7
Pelizzetti, E., see Hidaka, H. 239
Perez Zurita, M.J., Henriquez, I.S., De Goldwasser, M.R., Luisa Cubeiro, M. and Bond, G.C.
Effect of the method of preparing Ru–Mo/SiO_2 catalysts in their behaviour in CO hydrogenation 213
Pinaeva, L.G., Lapina, O.B., Mastikhin, V.M., Nosov, A.V. and S Balzhinimaev, B.
^1H and ^{51}V high-resolution solid state nuclear magnetic resonance studies of supported V_2O_5/TiO_2 catalysts 311
Pirozhkov, S.D., see Choudary, B.M. 23
Poulain, E., see López, T. 71
Prado, C.M.C., see Iamamoto, Y. 167
Prasad, B.P., see Narayanan, S. L271
Ramírez-Solís, A., see López, T. 71
Ravichandran, R. and Divakar, S.
β-Cyclodextrin as inverse phase-transfer catalyst in oxidations of isoborneol, borneol and menthol by calcium hypochlorite in aqueous solution L117
Richmond, M.G., see Don, M.-J. 133
Richmond, M.G., see Yang, K. 159
Sacco, H.C., see Iamamoto, Y. 167

Saha, C.R., see Mukherjee, D.K. 57
Sakai, S., see Sakata, Y. 103
Sakata, Y., Sakai, S., Imamura, H., Tsuchiya, S., Sugise, R. and Ohdan, K.
Catalytic hydrogenation activities of characteristic copper–lanthanide complex oxide of $Cu_6O_8Ln(NO_3)$ 103
Saleque, M.A., see Chang, H.-F. 223
Satish, S., see Upadhyay, M.J. 287
Satoh, Y., see Hidaka, H. 239
Schmidtová, M., see Macho, V. 177
Serpone, N., see Hidaka, H. 239
Šolcová, O. and Jirátová, K.
Role of the support of the nickel catalyst in the synthesis of morpholine from diethylene glycol and ammonia 193
Sommovigo, M. and Alper, H.
Aerobic oxidation of ethers and alkenes catalyzed by a novel palladium complex 151
Souvignet, E., Pautet, F. and Daudon, M.
Transition-metal phthalocyanine catalyzed oxidation of sulfides by iodosylbenzene 7
Sparks, D.E., Srinivasan, R. and Davis, B.H.
Paraffin dehydrocyclization. Part 8. Conversion of *n*-octane with mono and bifunctional $Pt–Al_2O_3$ catalysts at 100 psig 325
Sparks, D.E., Srinivasan, R. and Davis, B.H.
Paraffin dehydrocyclization. Part 10. Conversion of *n*-octane with supported Pt–Sn catalysts at 100 psig 359
Srinivasan, R., see Sparks, D.E. 325
Srinivasan, R. and Davis, B.H.
Paraffin dehydrocyclization. Part 9. Conversion of *n*-octane with Pt–Sn catalysts at atmospheric pressure 343
Srinivasan, R., see Sparks, D.E. 359
Subrahmanyam, N., see Parikh, P.A. 85
Sugi, Y., see Kelkar, A.A. L113
Sugise, R., see Sakata, Y. 103
Takeuchi, K., see Ibusuki, T. 93
Tateishi, M., see Mizuno, N. L125
Tomov, A., see Kurtev, K. 141
Trusov, S., see Levina, A. L121
Trzeciak, A.M., Ziółkowski, J.J., Jaworska-Galas, Z., Miśta, W. and Wrzyszcz, J.
Homogeneous and alumina supported rhodium complex catalyzed hydrogenation 13
Tsuchiya, S., see Sakata, Y. 103
Tsumura, K., see Hamada, T. L1
Upadhyay, M.J., Bhattacharya, P.K., Ganeshpure, P.A. and Satish, S.
Synthesis of binuclear amide complexes of Ru(III) and study of their catalytic activity in epoxidation of alkenes 287
Usui, S., see Hamada, T. L1
Vancheesan, S., see Chandiran, T. 31
Vojček, L., see Macho, V. 177
Werner, H.A.F. and Bauer, R.
Some possibilities and problems regarding photochemical water oxidation 185
Wrzyszcz, J., see Trzeciak, A.M. 13
Xu, Y., see Chen, W. 277
Yang, K., Chien, H.-Y. and Richmond, M.G.
Cylindrical internal reflectance (CIR) evidence for the facile fragmentation of $PhCCo_3(CO)_7$(*cis*-$Ph_2PCH{=}CHPPh_2$) during the hydroformylation of 1-pentene 159
Zhao, J., see Hidaka, H. 239
Ziółkowski, J.J., see Trzeciak, A.M. 13

ELSEVIER

Journal of Molecular Catalysis 88 (1994) 388–395

JOURNAL OF MOLECULAR CATALYSIS

Subject Index

acidic properties
A comparative study of acidic properties of SAPO-5, -11, -34 and -37 molecular sieves 249
aerobic oxidation
Aerobic oxidation of ethers and alkenes catalyzed by a novel palladium complex 151
alcohols
Nitrous acid-catalysed oxidation of alcohols by oxygen in strongly acidic aqueous solutions L121
alkene
Aerobic oxidation of ethers and alkenes catalyzed by a novel palladium complex 151
alkenes
Synthesis of binuclear amide complexes of Ru(III) and study of their catalytic activity in epoxidation of alkenes 287
alkylation
Synthesis of diisopropylbenzene over dealuminated zeolite beta 85
Montmorillonite and vanadia–montmorillonite catalysts for aniline alkylation L271
alumina
Homogeneous and alumina supported rhodium complex catalyzed hydrogenation 13
Catalytic activities of electroless plated Cu/alumina catalysts for the dehydrogenation of cyclohexanol 223
Paraffin dehydrocyclization. Part 8. Conversion of *n*-octane with mono and bifunctional $Pt–Al_2O_3$ catalysts at 100 psig 325
aluminophosphate
A comparative study of acidic properties of SAPO-5, -11, -34 and -37 molecular sieves 249
amides
Synthesis of binuclear amide complexes of Ru(III) and study of their catalytic activity in epoxidation of alkenes 287
aminated polystyrene
Chemoselective reduction of nitro groups in the presence of olefinic, ester, and halogeno functions using a reducing agent of CO and H_2O catalyzed by Rh carbonyl clusters L267
amination
Role of the support of the nickel catalyst in the synthesis of morpholine from diethylene glycol and ammonia 193
aniline
Carbonylative reduction of aromatic nitroderivatives to arylamines catalyzed by sulfur compounds 177
Montmorillonite and vanadia–montmorillonite catalysts for aniline alkylation L271
aqueous medium
β-Cyclodextrin as inverse phase-transfer catalyst in oxidations of isoborneol, borneol and menthol by calcium hypochlorite in aqueous solution L117
aqueous phase
Aqueous phase rhodium hydroformylation of octene-1 with trisulfonated tris(ω-phenyl)alkylphosphines and trisulfonated triphenyl phosphine. Reaction selectivity as an indication of rhodium–phosphine complex chemistry 43
arene complexes
Hydrogenation of conjugated dienes catalysed by η^6-arenetricarbonylchromium complexes 31
aromatics
Electrophilic halogenation of aromatics and heteroaromatics with *N*-halosuccinimides in a solid/liquid system using an H^+ ion exchanger or ultrasonic irradiation 377
arylamines
Carbonylative reduction of aromatic nitroderivatives to arylamines catalyzed by sulfur compounds 177
base
Carbonylative reduction of aromatic

nitroderivatives to arylamines catalyzed by sulfur compounds 177
base effects
Palladium catalyzed vinylation of 4-bromo-4′-hydroxybiphenyl L113
benzene
Intermolecular methyl group transfers in the xylene and xylene–benzene systems by means of anhydrous HF 205
benzylidyne
Hydroformylation catalysis explored by cylindrical internal reflectance spectroscopy. Spectroscopic evidence for the fragmentation of the benzylidyne cluster $PhCCo_3(CO)_9$ 133
benzylpyruvic acid
Double vs. mono carbonylation of phenethyl bromide catalyzed by cobalt complexes: effect of hydrophobic or water-soluble phosphines on the rate and selectivity of the reaction 295
binuclear complexes
Ethene polymerization by binuclear nickel–ylide complexes 141
Synthesis of binuclear amide complexes of Ru(III) and study of their catalytic activity in epoxidation of alkenes 287
biphenyl
Palladium catalyzed vinylation of 4-bromo-4′-hydroxybiphenyl L113
borneol
β-Cyclodextrin as inverse phase-transfer catalyst in oxidations of isoborneol, borneol and menthol by calcium hypochlorite in aqueous solution L117
carbon monoxide
Carbonylative reduction of aromatic nitroderivatives to arylamines catalyzed by sulfur compounds 177
Effect of the method of preparing $Ru–Mo/SiO_2$ catalysts in their behaviour in CO hydrogenation 213
carbonylation
An efficient heterogenised palladium catalytic system for the reductive carbonylation of nitrobenzene to methyl *N*-phenylcarbamate 23
Double vs. mono carbonylation of phenethyl bromide catalyzed by cobalt complexes: effect of hydrophobic or water-soluble phosphines on the rate and selectivity of the reaction 295
carbonylative reduction
Carbonylative reduction of aromatic nitroderivatives to arylamines catalyzed by sulfur compounds 177
carbonyl complexes
Hydrogenation of conjugated dienes catalysed by η^6-arenetricarbonylchromium complexes 31
Hydroformylation catalysis explored by cylindrical internal reflectance spectroscopy. Spectroscopic evidence for the fragmentation of the benzylidyne cluster $PhCCo_3(CO)_9$ 133
Cylindrical internal reflectance (CIR) evidence for the facile fragmentation of $PhCCo_3(CO)_7(cis\text{-}Ph_2PCH{=}CHPPh_2)$ during the hydroformylation of 1-pentene 159
Chemoselective reduction of nitro groups in the presence of olefinic, ester, and halogeno functions using a reducing agent of CO and H_2O catalyzed by Rh carbonyl clusters L267
carbonyl compounds
Nitrous acid-catalysed oxidation of alcohols by oxygen in strongly acidic aqueous solutions L121
chiral complexes
Enantioselective and photocatalytic oxidation of 1,1′-bi-2-naphthol with a chiral ruthenium complex which includes molecular helicity L1
chromium
Hydrogenation of conjugated dienes catalysed by η^6-arenetricarbonylchromium complexes 31
cobalt
Hydroformylation catalysis explored by cylindrical internal reflectance spectroscopy. Spectroscopic evidence for the fragmentation of the benzylidyne cluster $PhCCo_3(CO)_9$ 133
Cylindrical internal reflectance (CIR) evidence for the facile fragmentation of $PhCCo_3(CO)_7(cis\text{-}Ph_2PCH{=}CHPPh_2)$ during the hydroformylation of 1-pentene 159
Double vs. mono carbonylation of phenethyl bromide catalyzed by cobalt complexes: effect of hydrophobic or water-soluble phosphines on the rate and selectivity of the reaction 295
complex oxide
Catalytic hydrogenation activities of characteristic copper–lanthanide complex oxide of $Cu_6O_8Ln(NO_3)$ 103
conjugated dienes
Hydrogenation of conjugated dienes catalysed by η^6-arenetricarbonylchromium complexes 31
copper
Catalytic hydrogenation activities of characteristic copper–lanthanide complex oxide of $Cu_6O_8Ln(NO_3)$ 103
Catalytic activities of electroless plated Cu/alumina catalysts for the dehydrogenation of cyclohexanol 223
β-cyclodextrin
β-Cyclodextrin as inverse phase-transfer catalyst in oxidations of isoborneol, borneol and menthol

by calcium hypochlorite in aqueous solution L117
cyclohexane
Meso-aryl substituted metalloporphyrins supported on imidazole propyl gel (IPG). Catalytic activity in the oxidation of cyclohexane and characterization of iron porphyrin–IPG systems 167
cyclohexanol
Catalytic activities of electroless plated Cu/alumina catalysts for the dehydrogenation of cyclohexanol 223
cylindrical internal reflectance spectroscopy
Cylindrical internal reflectance (CIR) evidence for the facile fragmentation of $PhCCo_3(CO)_7$(*cis*-$Ph_2PCH{=}CHPPh_2$) during the hydroformylation of 1-pentene 159
Hydroformylation catalysis explored by cylindrical internal reflectance spectroscopy. Spectroscopic evidence for the fragmentation of the benzylidyne cluster $PhCCo_3(CO)_9$ 133
dealumination
Synthesis of diisopropylbenzene over dealuminated zeolite beta 85
dehydrocyclization
Paraffin dehydrocyclization. Part 8. Conversion of *n*-octane with mono and bifunctional Pt–Al_2O_3 catalysts at 100 psig 325
Paraffin dehydrocyclization. Part 9. Conversion of *n*-octane with Pt–Sn catalysts at atmospheric pressure 343
Paraffin dehydrocyclization. Part 10. Conversion of *n*-octane with supported Pt–Sn catalysts at 100 psig 359
dehydrogenation
Catalytic activities of electroless plated Cu/alumina catalysts for the dehydrogenation of cyclohexanol 223
diisopropylbenzene
Synthesis of diisopropylbenzene over dealuminated zeolite beta 85
dinitrobenzenes
Carbonylative reduction of aromatic nitroderivatives to arylamines catalyzed by sulfur compounds 177
EDTA decomposition
Some possibilities and problems regarding photochemical water oxidation 185
electroless copper plating
Catalytic activities of electroless plated Cu/alumina catalysts for the dehydrogenation of cyclohexanol 223
enantioselectivity
Enantioselective and photocatalytic oxidation of 1,1′-bi-2-naphthol with a chiral ruthenium complex which includes molecular helicity L1
epoxidation
Synthesis of binuclear amide complexes of Ru(III) and study of their catalytic activity in epoxidation of alkenes 287
ethene
Catalytic hydrogenation activities of characteristic copper–lanthanide complex oxide of $Cu_6O_8Ln(NO_3)$ 103
Ethene polymerization by binuclear nickel–ylide complexes 141
ether
Aerobic oxidation of ethers and alkenes catalyzed by a novel palladium complex 151
fragmentation
Hydroformylation catalysis explored by cylindrical internal reflectance spectroscopy. Spectroscopic evidence for the fragmentation of the benzylidyne cluster $PhCCo_3(CO)_9$ 133
Cylindrical internal reflectance (CIR) evidence for the facile fragmentation of $PhCCo_3(CO)_7$(*cis*-$Ph_2PCH{=}CHPPh_2$) during the hydroformylation of 1-pentene 159
halogenation
Electrophilic halogenation of aromatics and heteroaromatics with *N*-halosuccinimides in a solid/liquid system using an H^+ ion exchanger or ultrasonic irradiation 377
Heck reaction
Palladium catalyzed vinylation of 4-bromo-4′-hydroxybiphenyl L113
helicity
Enantioselective and photocatalytic oxidation of 1,1′-bi-2-naphthol with a chiral ruthenium complex which includes molecular helicity L1
heteroaromatics
Electrophilic halogenation of aromatics and heteroaromatics with *N*-halosuccinimides in a solid/liquid system using an H^+ ion exchanger or ultrasonic irradiation 377
heterogeneous catalysis
Removal of low concentration nitrogen oxides through photoassisted heterogeneous catalysis 93
heteropolyanion
Synthesis of $[PW_9O_{37}\{Fe_{3-x}Ni_x(OAc)_3\}]^{(9+x)-}$ (x = predominantly 1) and oxidation catalysis by the catalyst precursor L125
hexenes

Isomerization and oxidation of linear hexenes with methanolic Pd(II) 301

H^+ ion exchange

Electrophilic halogenation of aromatics and heteroaromatics with *N*-halosuccinimides in a solid/liquid system using an H^+ ion exchanger or ultrasonic irradiation 377

hydrofluoric acid

Intermolecular methyl group transfers in the xylene and xylene–benzene systems by means of anhydrous HF 205

hydroformylation

Aqueous phase rhodium hydroformylation of octene-1 with trisulfonated tris(ω-phenyl)alkylphosphines and trisulfonated triphenyl phosphine. Reaction selectivity as an indication of rhodium–phosphine complex chemistry 43

Hydroformylation catalysis explored by cylindrical internal reflectance spectroscopy. Spectroscopic evidence for the fragmentation of the benzylidyne cluster $PhCCo_3(CO)_9$ 133

Cylindrical internal reflectance (CIR) evidence for the facile fragmentation of $PhCCo_3(CO)_7$(*cis*-$Ph_2PCH{=}CHPPh_2$) during the hydroformylation of 1-pentene 159

Hydroformylation of olefins catalyzed by (1,5-cyclooctadiene) salicylaldoximatorhodium under atmospheric pressure 277

hydrogenation

Homogeneous and alumina supported rhodium complex catalyzed hydrogenation 13

Hydrogenation of conjugated dienes catalysed by η^6-arenetricarbonylchromium complexes 31

Dihydrogen reduction of organic substrates using orthometallated ruthenium(II) complex catalysts 57

Catalytic hydrogenation activities of characteristic copper–lanthanide complex oxide of $Cu_6O_8Ln(NO_3)$ 103

Effect of the method of preparing Ru–Mo/SiO_2 catalysts in their behaviour in CO hydrogenation 213

imidazole propyl gel

Meso-aryl substituted metalloporphyrins supported on imidazole propyl gel (IPG). Catalytic activity in the oxidation of cyclohexane and characterization of iron porphyrin–IPG systems 167

inverse phase-transfer catalyst

β-Cyclodextrin as inverse phase-transfer catalyst in oxidations of isoborneol, borneol and menthol by calcium hypochlorite in aqueous solution L117

iodosylbenzene

Transition-metal phthalocyanine catalyzed oxidation of sulfides by iodosylbenzene 7

iron

Meso-aryl substituted metalloporphyrins supported on imidazole propyl gel (IPG). Catalytic activity in the oxidation of cyclohexane and characterization of iron porphyrin–IPG systems 167

isoborneol

β-Cyclodextrin as inverse phase-transfer catalyst in oxidations of isoborneol, borneol and menthol by calcium hypochlorite in aqueous solution L117

isomerization

Isomerization and oxidation of linear hexenes with methanolic Pd(II) 301

Keggin-type polyanion

Synthesis of $[PW_9O_{37}\{Fe_{3-x}Ni_x(OAc)_3\}]^{(9+x)-}$ (x = predominantly 1) and oxidation catalysis by the catalyst precursor L125

lanthanides

Catalytic hydrogenation activities of characteristic copper–lanthanide complex oxide of $Cu_6O_8Ln(NO_3)$ 103

lithium

Li/MgO sol–gel catalysts 71

magnesia

Li/MgO sol–gel catalysts 71

menthol

β-Cyclodextrin as inverse phase-transfer catalyst in oxidations of isoborneol, borneol and menthol by calcium hypochlorite in aqueous solution L117

metalloporphyrins

Meso-aryl substituted metalloporphyrins supported on imidazole propyl gel (IPG). Catalytic activity in the oxidation of cyclohexane and characterization of iron porphyrin–IPG systems 167

methanol

Isomerization and oxidation of linear hexenes with methanolic Pd(II) 301

methyl group transfer

Intermolecular methyl group transfers in the xylene and xylene–benzene systems by means of anhydrous HF 205

methyl *N*-phenylcarbamate

An efficient heterogenised palladium catalytic system for the reductive carbonylation of nitrobenzene to methyl *N*-phenylcarbamate 23

Carbonylative reduction of aromatic

nitroderivatives to arylamines catalyzed by sulfur compounds 177
mineralization
Photodegradation of surfactants. Part XII: Photocatalyzed mineralization of phosphorus-containing surfactants at TiO_2/H_2O interfaces 239
molecular sieves
A comparative study of acidic properties of SAPO-5, -11, -34 and -37 molecular sieves 249
molybdenum
Effect of the method of preparing $Ru–Mo/SiO_2$ catalysts in their behaviour in CO hydrogenation 213
montmorillonite
An efficient heterogenised palladium catalytic system for the reductive carbonylation of nitrobenzene to methyl *N*-phenylcarbamate 23
Montmorillonite and vanadia–montmorillonite catalysts for aniline alkylation L271
morpholine
Role of the support of the nickel catalyst in the synthesis of morpholine from diethylene glycol and ammonia 193
naphthol derivatives
Enantioselective and photocatalytic oxidation of 1,1′-bi-2-naphthol with a chiral ruthenium complex which includes molecular helicity L1
nickel
Ethene polymerization by binuclear nickel–ylide complexes 141
Role of the support of the nickel catalyst in the synthesis of morpholine from diethylene glycol and ammonia 193
nitroanilines
Carbonylative reduction of aromatic nitroderivatives to arylamines catalyzed by sulfur compounds 177
nitrobenzene
Carbonylative reduction of aromatic nitroderivatives to arylamines catalyzed by sulfur compounds 177
nitrogen oxides
Removal of low concentration nitrogen oxides through photoassisted heterogeneous catalysis 93
nitro groups
Chemoselective reduction of nitro groups in the presence of olefinic, ester, and halogeno functions using a reducing agent of CO and H_2O catalyzed by Rh carbonyl clusters L267
nitrous acid
Nitrous acid-catalysed oxidation of alcohols by oxygen in strongly acidic aqueous solutions L121
NMR spectroscopy
Homogeneous and alumina supported rhodium complex catalyzed hydrogenation 13
N,N′-diphenylurea
Carbonylative reduction of aromatic nitroderivatives to arylamines catalyzed by sulfur compounds 177
nuclear magnetic resonance studies
^1H and ^{51}V high-resolution solid state nuclear magnetic resonance studies of supported V_2O_5/TiO_2 catalysts 311
octane
Paraffin dehydrocyclization. Part 8. Conversion of *n*-octane with mono and bifunctional $Pt–Al_2O_3$ catalysts at 100 psig 325
Paraffin dehydrocyclization. Part 10. Conversion of *n*-octane with supported Pt–Sn catalysts at 100 psig 359
octanes
Paraffin dehydrocyclization. Part 9. Conversion of *n*-octane with Pt–Sn catalysts at atmospheric pressure 343
octene
Aqueous phase rhodium hydroformylation of octene-1 with trisulfonated tris(ω-phenyl)alkylphosphines and trisulfonated triphenyl phosphine. Reaction selectivity as an indication of rhodium–phosphine complex chemistry 43
olefins
Hydroformylation of olefins catalyzed by (1,5-cyclooctadiene) salicylaldoximatorhodium under atmospheric pressure 277
orthometallated catalysts
Dihydrogen reduction of organic substrates using orthometallated ruthenium(II) complex catalysts 57
oxidation
Enantioselective and photocatalytic oxidation of 1,1′-bi-2-naphthol with a chiral ruthenium complex which includes molecular helicity L1
Transition-metal phthalocyanine catalyzed oxidation of sulfides by iodosylbenzene 7
β-Cyclodextrin as inverse phase-transfer catalyst in oxidations of isoborneol, borneol and menthol by calcium hypochlorite in aqueous solution L117
Nitrous acid-catalysed oxidation of alcohols by oxygen in strongly acidic aqueous solutions L121
Meso-aryl substituted metalloporphyrins supported on imidazole propyl gel (IPG).

Catalytic activity in the oxidation of cyclohexane and characterization of iron porphyrin–IPG systems 167
Some possibilities and problems regarding photochemical water oxidation 185
Isomerization and oxidation of linear hexenes with methanolic Pd(II) 301
oxygenation
Synthesis of $[PW_9O_{37}\{Fe_{3-x}Ni_x(OAc)_3\}]^{(9+x)-}$ (x = predominantly 1) and oxidation catalysis by the catalyst precursor L125
palladium
An efficient heterogenised palladium catalytic system for the reductive carbonylation of nitrobenzene to methyl *N*-phenylcarbamate 23
Aerobic oxidation of ethers and alkenes catalyzed by a novel palladium complex 151
Isomerization and oxidation of linear hexenes with methanolic Pd(II) 301
palladium catalyst
Palladium catalyzed vinylation of 4-bromo-4′-hydroxybiphenyl L113
paraffin
Paraffin dehydrocyclization. Part 8. Conversion of *n*-octane with mono and bifunctional $Pt–Al_2O_3$ catalysts at 100 psig 325
Paraffin dehydrocyclization. Part 10. Conversion of *n*-octane with supported Pt–Sn catalysts at 100 psig 359
pentene
Cylindrical internal reflectance (CIR) evidence for the facile fragmentation of $PhCCo_3(CO)_7$(*cis*-$Ph_2PCH{=}CHPPh_2$) during the hydroformylation of 1-pentene 159
phenethyl bromide
Double vs. mono carbonylation of phenethyl bromide catalyzed by cobalt complexes: effect of hydrophobic or water-soluble phosphines on the rate and selectivity of the reaction 295
phenylenediamines
Carbonylative reduction of aromatic nitroderivatives to arylamines catalyzed by sulfur compounds 177
phenylformamide
Carbonylative reduction of aromatic nitroderivatives to arylamines catalyzed by sulfur compounds 177
phoshine complexes
Aqueous phase rhodium hydroformylation of octene-1 with trisulfonated tris(ω-phenyl)alkylphosphines and trisulfonated triphenyl phosphine. Reaction selectivity as an indication of rhodium–phosphine complex chemistry 43
phosphine ligand
Palladium catalyzed vinylation of 4-bromo-4′-hydroxybiphenyl L113
phosphine ligands
Hydroformylation of olefins catalyzed by (1,5-cyclooctadiene) salicylaldoximatorhodium under atmospheric pressure 277
phosphines
Double vs. mono carbonylation of phenethyl bromide catalyzed by cobalt complexes: effect of hydrophobic or water-soluble phosphines on the rate and selectivity of the reaction 295
photoassisted catalysis
Removal of low concentration nitrogen oxides through photoassisted heterogeneous catalysis 93
photocatalysis
Enantioselective and photocatalytic oxidation of 1,1′-bi-2-naphthol with a chiral ruthenium complex which includes molecular helicity L1
photodegradation
Photodegradation of surfactants. Part XII: Photocatalyzed mineralization of phosphorus-containing surfactants at TiO_2/H_2O interfaces 239
photolysis
Some possibilities and problems regarding photochemical water oxidation 185
phthalocyanines
Transition-metal phthalocyanine catalyzed oxidation of sulfides by iodosylbenzene 7
platinum
Paraffin dehydrocyclization. Part 8. Conversion of *n*-octane with mono and bifunctional $Pt–Al_2O_3$ catalysts at 100 psig 325
Paraffin dehydrocyclization. Part 9. Conversion of *n*-octane with Pt–Sn catalysts at atmospheric pressure 343
Paraffin dehydrocyclization. Part 10. Conversion of *n*-octane with supported Pt–Sn catalysts at 100 psig 359
polymerization
Ethene polymerization by binuclear nickel–ylide complexes 141
porphyrin
Meso-aryl substituted metalloporphyrins supported on imidazole propyl gel (IPG). Catalytic activity in the oxidation of cyclohexane and characterization of iron porphyrin–IPG systems 167
pyridine
An efficient heterogenised palladium catalytic

system for the reductive carbonylation of nitrobenzene to methyl *N*-phenylcarbamate 23
reduction
An efficient heterogenised palladium catalytic system for the reductive carbonylation of nitrobenzene to methyl *N*-phenylcarbamate 23
Dihydrogen reduction of organic substrates using orthometallated ruthenium(II) complex catalysts 57
Role of the support of the nickel catalyst in the synthesis of morpholine from diethylene glycol and ammonia 193
Chemoselective reduction of nitro groups in the presence of olefinic, ester, and halogeno functions using a reducing agent of CO and H_2O catalyzed by Rh carbonyl clusters L267
rhodium
Homogeneous and alumina supported rhodium complex catalyzed hydrogenation 13
Aqueous phase rhodium hydroformylation of octene-1 with trisulfonated tris(ω-phenyl)alkylphosphines and trisulfonated triphenyl phosphine. Reaction selectivity as an indication of rhodium–phosphine complex chemistry 43
Chemoselective reduction of nitro groups in the presence of olefinic, ester, and halogeno functions using a reducing agent of CO and H_2O catalyzed by Rh carbonyl clusters L267
Hydroformylation of olefins catalyzed by (1,5-cyclooctadiene) salicylaldoximatorhodium under atmospheric pressure 277
ruthenium
Enantioselective and photocatalytic oxidation of 1,1′-bi-2-naphthol with a chiral ruthenium complex which includes molecular helicity L1
Dihydrogen reduction of organic substrates using orthometallated ruthenium(II) complex catalysts 57
Effect of the method of preparing $Ru–Mo/SiO_2$ catalysts in their behaviour in CO hydrogenation 213
Synthesis of binuclear amide complexes of Ru(III) and study of their catalytic activity in epoxidation of alkenes 287
salicylaldoximato ligand
Hydroformylation of olefins catalyzed by (1,5-cyclooctadiene) salicylaldoximatorhodium under atmospheric pressure 277
SAPO (FT-OR)
A comparative study of acidic properties of SAPO-5, -11, -34 and -37 molecular sieves 249
SAPO molecular sieves
A comparative study of acidic properties of SAPO-5, -11, -34 and -37 molecular sieves 249
SAPO (XPS)
A comparative study of acidic properties of SAPO-5, -11, -34 and -37 molecular sieves 249
selectivity
Aqueous phase rhodium hydroformylation of octene-1 with trisulfonated tris(ω-phenyl)alkylphosphines and trisulfonated triphenyl phosphine. Reaction selectivity as an indication of rhodium–phosphine complex chemistry 43
silica
Effect of the method of preparing $Ru–Mo/SiO_2$ catalysts in their behaviour in CO hydrogenation 213
^{29}Si NMR spectroscopy
A comparative study of acidic properties of SAPO-5, -11, -34 and -37 molecular sieves 249
sol–gel catalysts
Li/MgO sol–gel catalysts 71
solid state
^{1}H and ^{51}V high-resolution solid state nuclear magnetic resonance studies of supported V_2O_5/TiO_2 catalysts 311
stabilization
Synthesis of diisopropylbenzene over dealuminated zeolite beta 85
strong acids
Nitrous acid-catalysed oxidation of alcohols by oxygen in strongly acidic aqueous solutions L121
succinimides
Electrophilic halogenation of aromatics and heteroaromatics with *N*-halosuccinimides in a solid/liquid system using an H^+ ion exchanger or ultrasonic irradiation 377
sulphonated phosphines
Aqueous phase rhodium hydroformylation of octene-1 with trisulfonated tris(ω-phenyl)alkylphosphines and trisulfonated triphenyl phosphine. Reaction selectivity as an indication of rhodium–phosphine complex chemistry 43
sulphur derivatives
Carbonylative reduction of aromatic nitroderivatives to arylamines catalyzed by sulfur compounds 177
supported catalyst
Role of the support of the nickel catalyst in the

synthesis of morpholine from diethylene glycol and ammonia 193
Catalytic activities of electroless plated Cu/alumina catalysts for the dehydrogenation of cyclohexanol 223
supported catalysts
Meso-aryl substituted metalloporphyrins supported on imidazole propyl gel (IPG). Catalytic activity in the oxidation of cyclohexane and characterization of iron porphyrin–IPG systems 167
surfactants
Photodegradation of surfactants. Part XII: Photocatalyzed mineralization of phosphorus-containing surfactants at TiO_2/H_2O interfaces 239
tin
Paraffin dehydrocyclization. Part 9. Conversion of *n*-octane with Pt–Sn catalysts at atmospheric pressure 343
titania
^1H and ^{51}V high-resolution solid state nuclear magnetic resonance studies of supported V_2O_5/TiO_2 catalysts 311
titania/water interfaces
Photodegradation of surfactants. Part XII: Photocatalyzed mineralization of phosphorus-containing surfactants at TiO_2/H_2O interfaces 239
tri-transition-metal complex
Synthesis of $[PW_9O_{37}\{Fe_{3-x}Ni_x(OAc)_3\}]^{(9+x)-}$ (x = predominantly 1) and oxidation catalysis by the catalyst precursor L125
ultrasonic irradiation
Electrophilic halogenation of aromatics and heteroaromatics with *N*-halosuccinimides in a solid/liquid system using an H^+ ion exchanger or ultrasonic irradiation 377
ultrasound
Transition-metal phthalocyanine catalyzed oxidation of sulfides by iodosylbenzene 7
vanadia
Montmorillonite and vanadia–montmorillonite catalysts for aniline alkylation L271
^1H and ^{51}V high-resolution solid state nuclear magnetic resonance studies of supported V_2O_5/TiO_2 catalysts 311
vanadium
Carbonylative reduction of aromatic nitroderivatives to arylamines catalyzed by sulfur compounds 177
vinylation
Palladium catalyzed vinylation of 4-bromo-4′-hydroxybiphenyl L113
water
Carbonylative reduction of aromatic nitroderivatives to arylamines catalyzed by sulfur compounds 177
Some possibilities and problems regarding photochemical water oxidation 185
xylene
Intermolecular methyl group transfers in the xylene and xylene–benzene systems by means of anhydrous HF 205
ylide complexes
Ethene polymerization by binuclear nickel–ylide complexes 141
zeolite beta
Synthesis of diisopropylbenzene over dealuminated zeolite beta 85